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Rupture -- 5.7 Capillary Forces in Immiscible liquid Mixtures and Other Systems -- 5.8 Lateral Forces Between Particles at a Fluid Interface -- 5.9 Summary -- 5.10 Exercises -- 6 HYDRODYNAMIC FORCES -- 6.1 Fundamentals of Hydrodynamics -- 6.2 Hydrodynamic Force between a Solid Sphere and a Plate -- 6.3 Hydrodynamic Boundary Condition -- 6.4 Gibbs Adsorption Isotherm -- 6.5 Hydrodynamic Forces Between Fluid Boundaries -- 6.6 Summary -- 6.7 Exercises -- 7 INTERFACIAL FORCES BETWEEN FLUID INTERFACES AND ACROSS THIN FILMS -- 7.1 Overview -- 7.2 The Disjoining Pressure -- 7.3 Drainage -- 7.4 Thin Film Balance -- 7.5 Interfacial Forces Across Foam and Emulsion Films -- 7.6 Thin Wetting Films -- 7.7 Summary -- 7.8. Exercises -- 8 CONTACT MECHANICS AND ADHESION -- 8.1 Surface Energy of Solids -- 8.2 Contact Mechanics -- 8.3 Influence of Surface Roughness -- 8.4 Adhesion Force Measurements -- 8.5 Summary -- 8.6 Exercises -- 9 FRICTION -- 9.1 Macroscopic Friction -- 9.2 Lubrication -- 9.3 Microscopic Friction: Nanotribology -- 9.4 Summary -- 9.5 Exercises -- 10 SOLVATION FORCES AND NON-DLVO FORCES IN WATER -- 10.1 Solvation Forces -- 10.2 Non-DLVO Forces in an Aqueous Medium -- 10.3 The Interaction Between Lipid Bilayers -- 10.4 Force Between Surfaces with Adsorbed Molecules -- 10.5 Summary -- 10.6 Exercises -- 11 SURFACE FORCES IN POLYMER SOLUTIONS AND MELTS -- 11.1 Properties of Polymers -- 11.2 Polymer Solutions -- 11.3 Steric Repulsion -- 11.4 Polymer-Induced Forces in Solutions -- 11.5 Bridging Attraction -- 11.6 Depletion and Structural Forces -- 11.7 Interfacial Forces in Polymer Melts -- 11.8 Summary -- 11.9 Exercises -- 12 SOLUTIONS TO.

Sommario/riassunto

A general introduction to surface and interfacial forces, perfectly combining theoretical concepts, experimental techniques and practical applications. In this completely updated edition all the chapters have been thoroughly revised and extended to cover new developments and approaches with around 15% new content.

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Sommario/riassunto	This volume profiles a dozen British men and women, who, for varying reasons, opposed the policy of the British government towards its 13 colonies before and during the American Revolution. Their actions helped prepare the way for the recognition of the United States as an

independent nation.
